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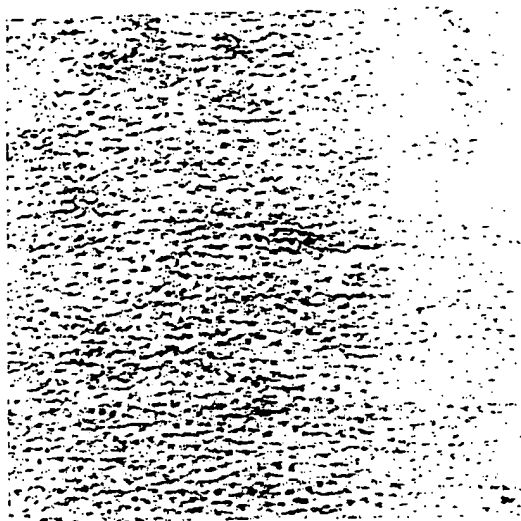


FIG. 1A

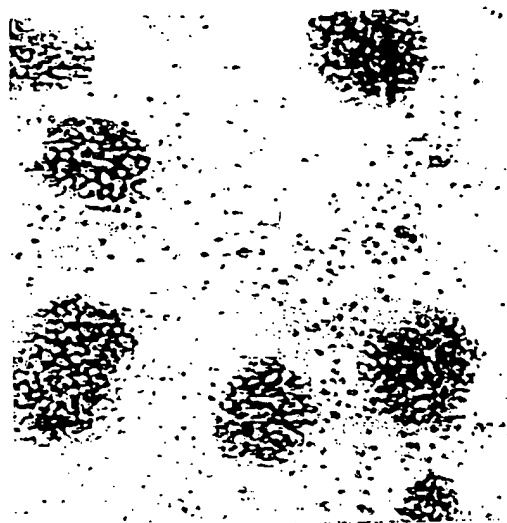


FIG. 1B

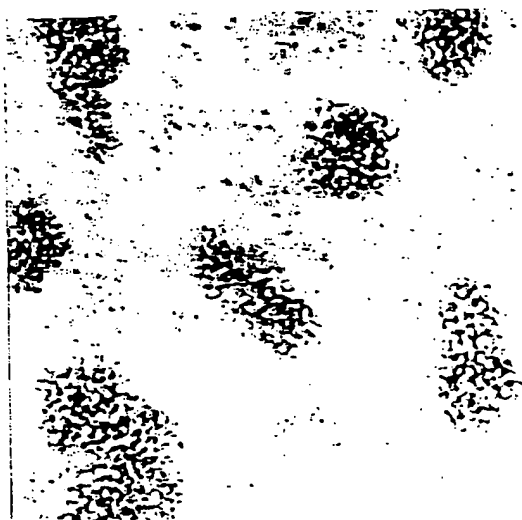


FIG. 1C

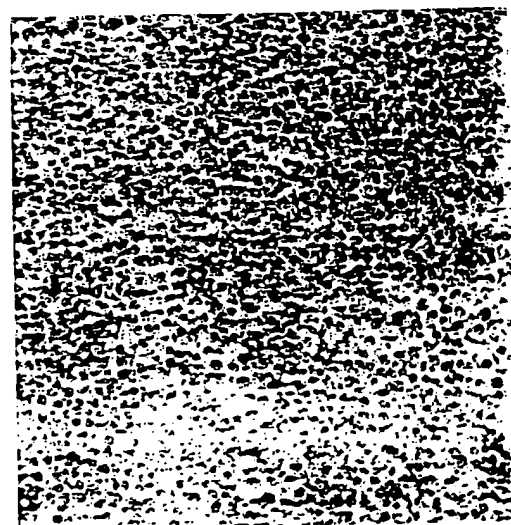
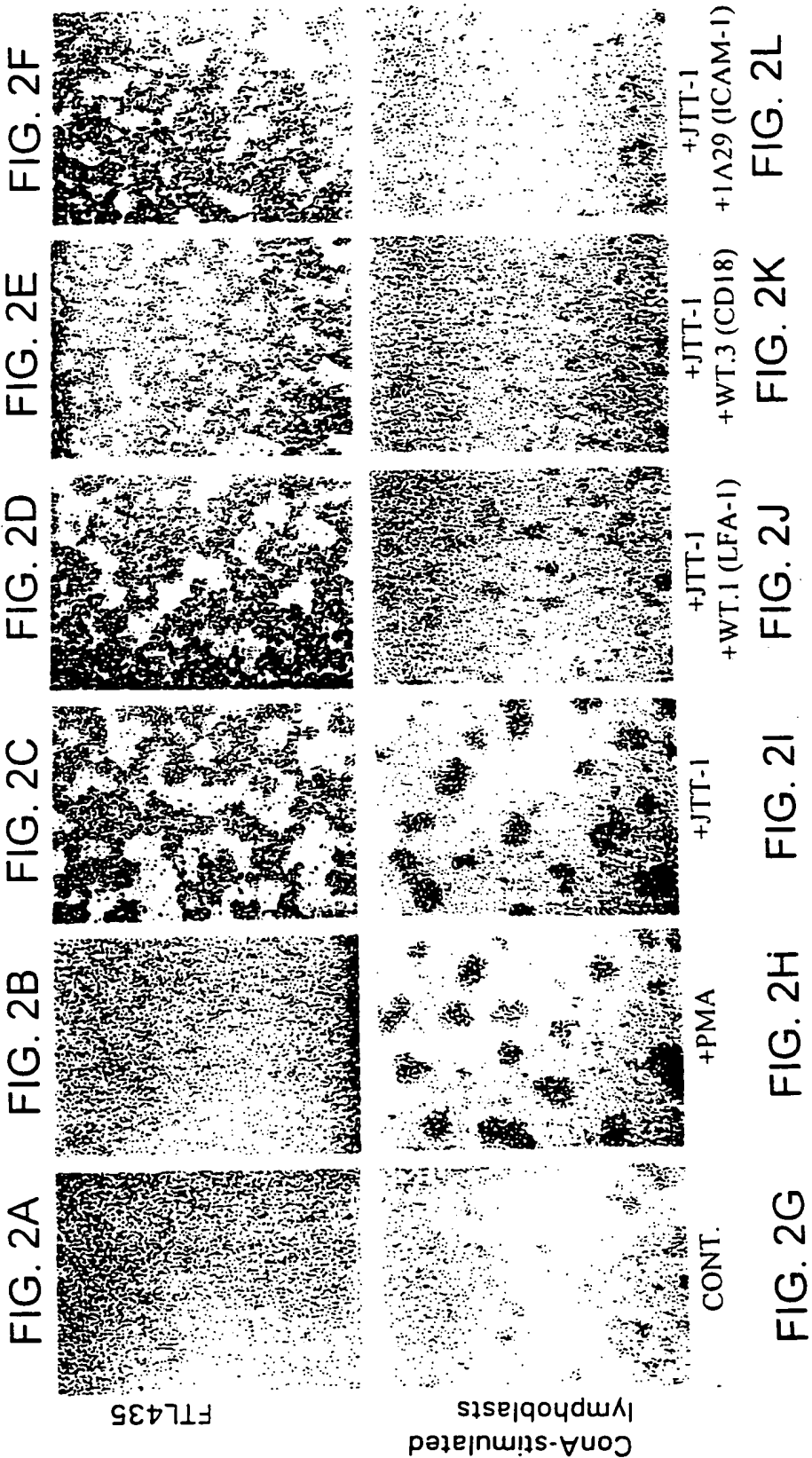


FIG. 1D



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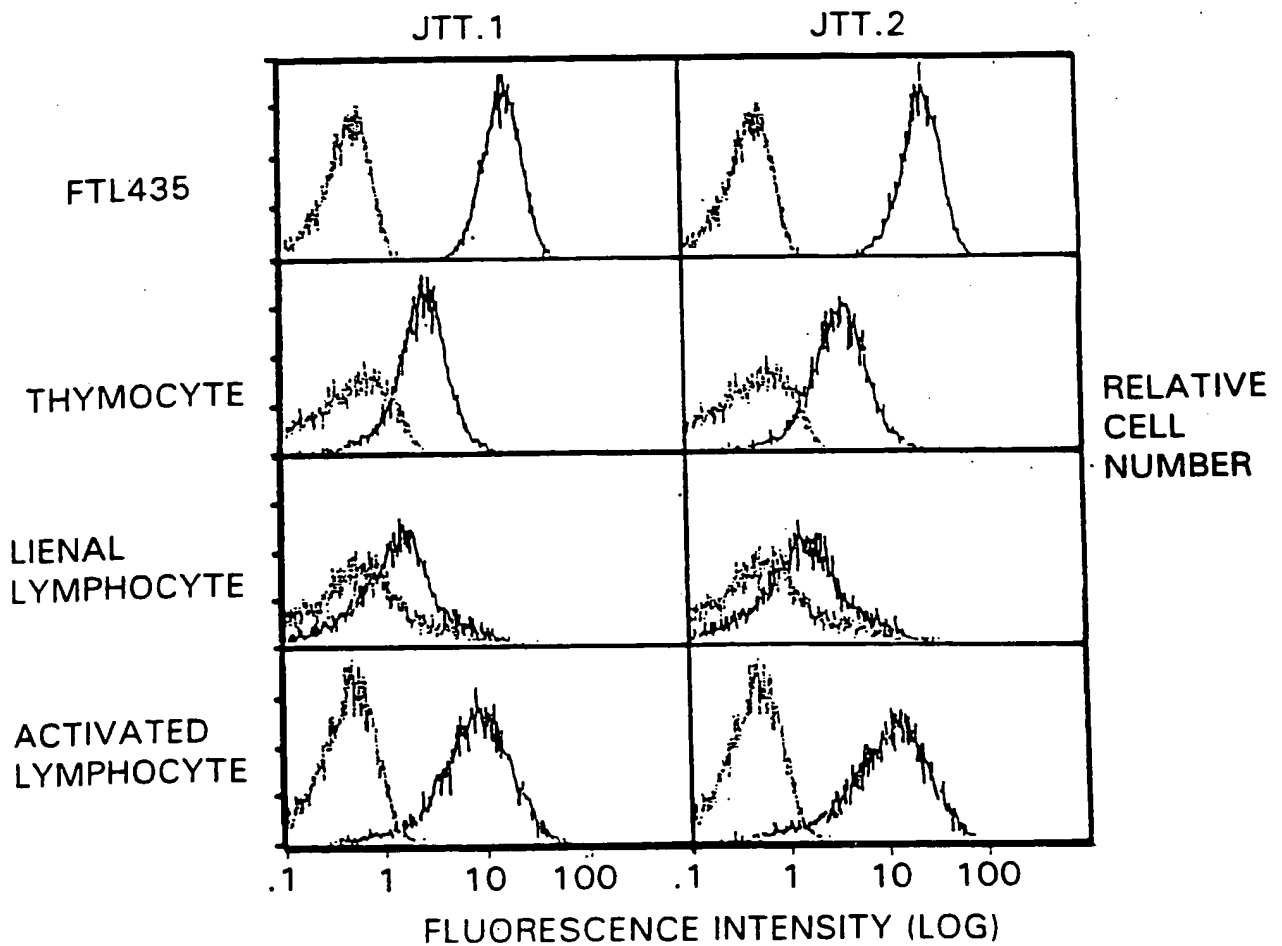
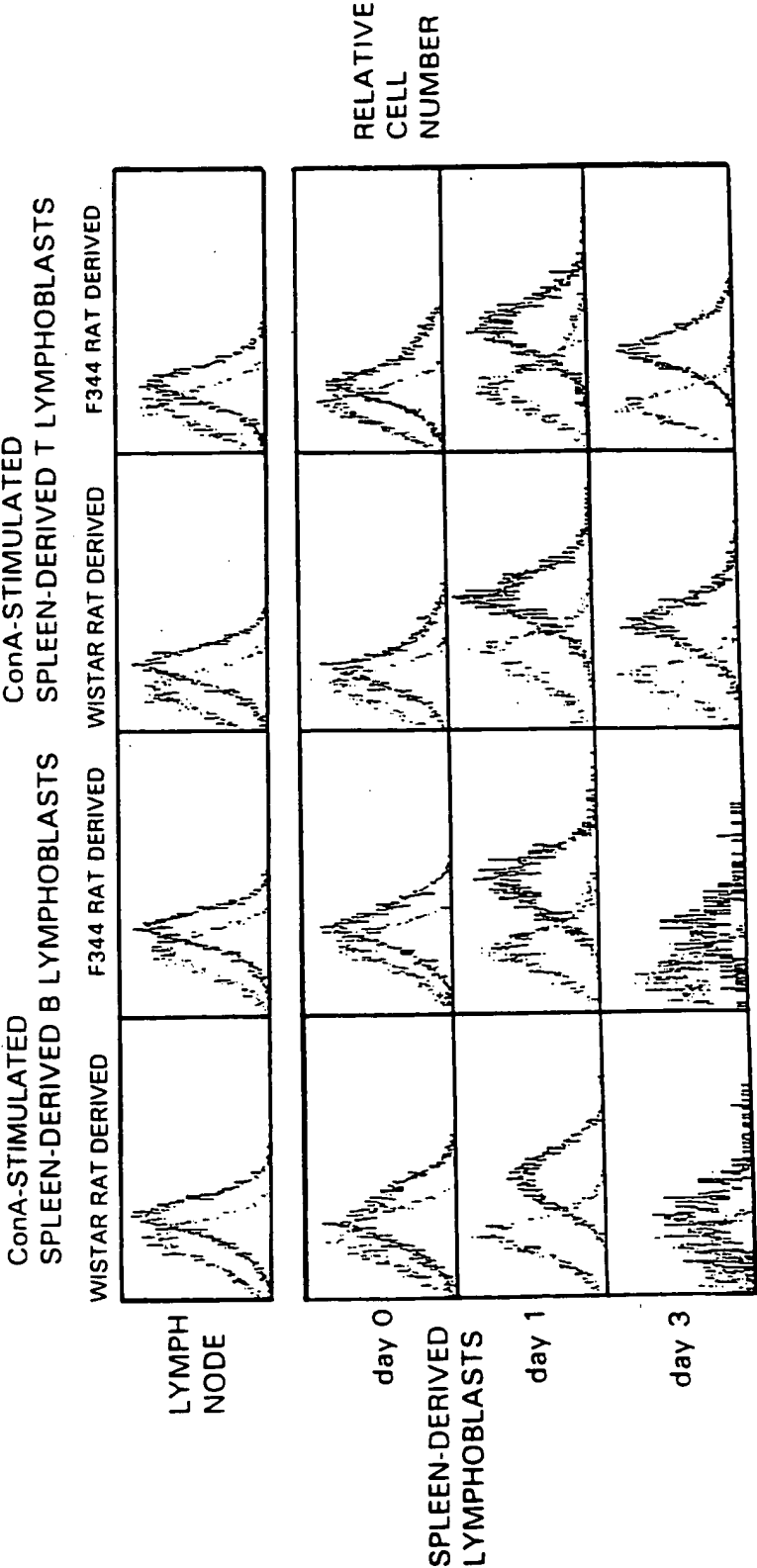
CELL SURFACE MOLECULE MEDIATING CELL ADHESION  
AND SIGNAL TRANSMISSION

FIG. 3



FLUORESCENCE INTENSITY (LOG)

FIG. 4

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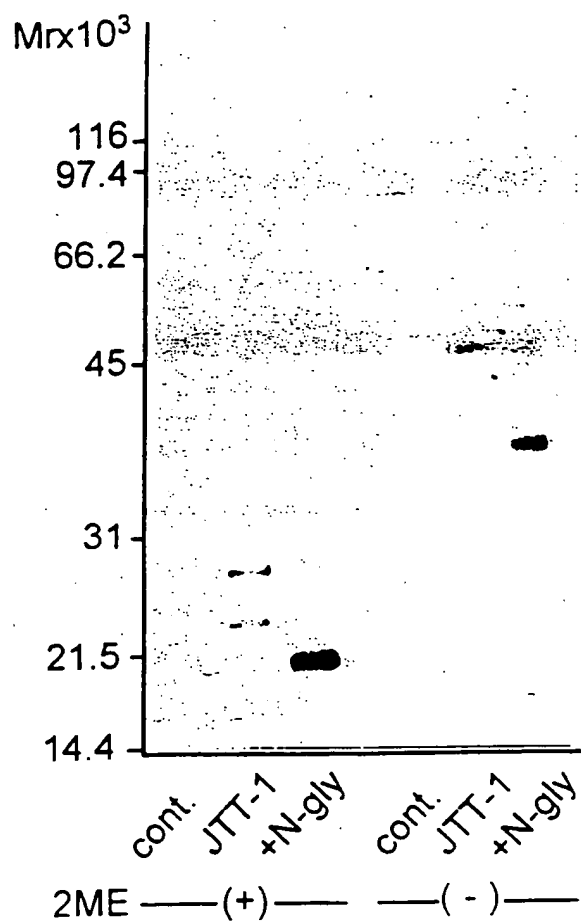
CELL SURFACE MOLECULE MEDIATING CELL ADHESION  
AND SIGNAL TRANSMISSION

FIG. 5



FIG. 6A

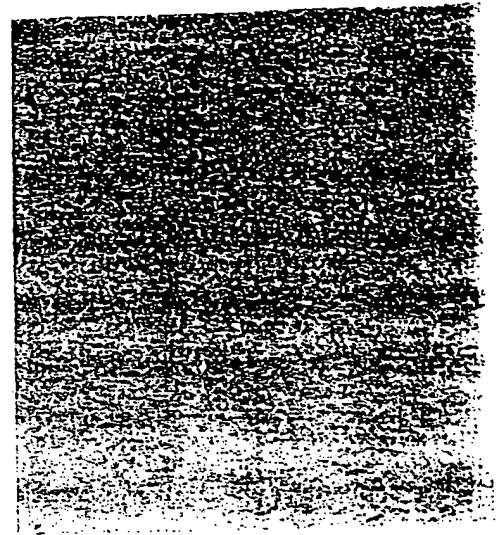


FIG. 6B

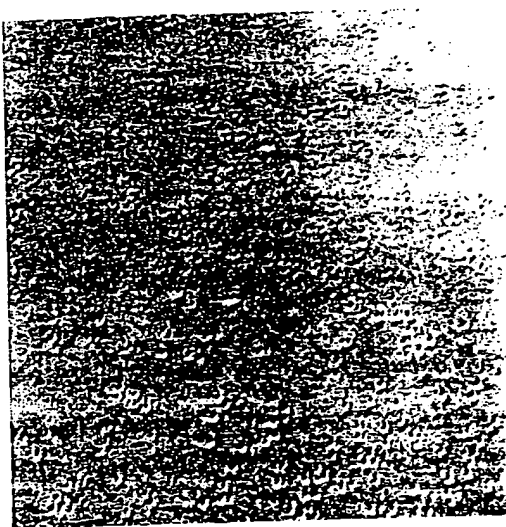


FIG. 6C

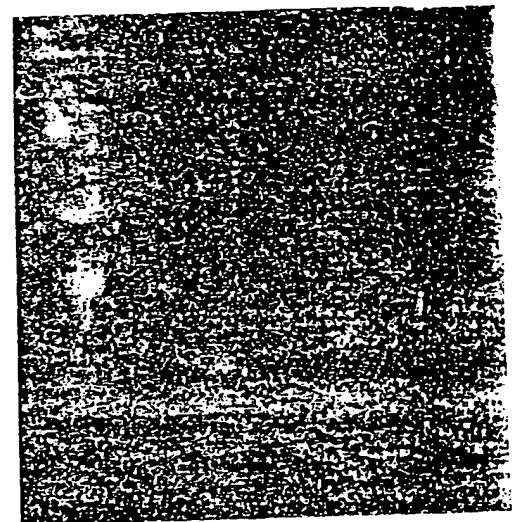


FIG. 6D

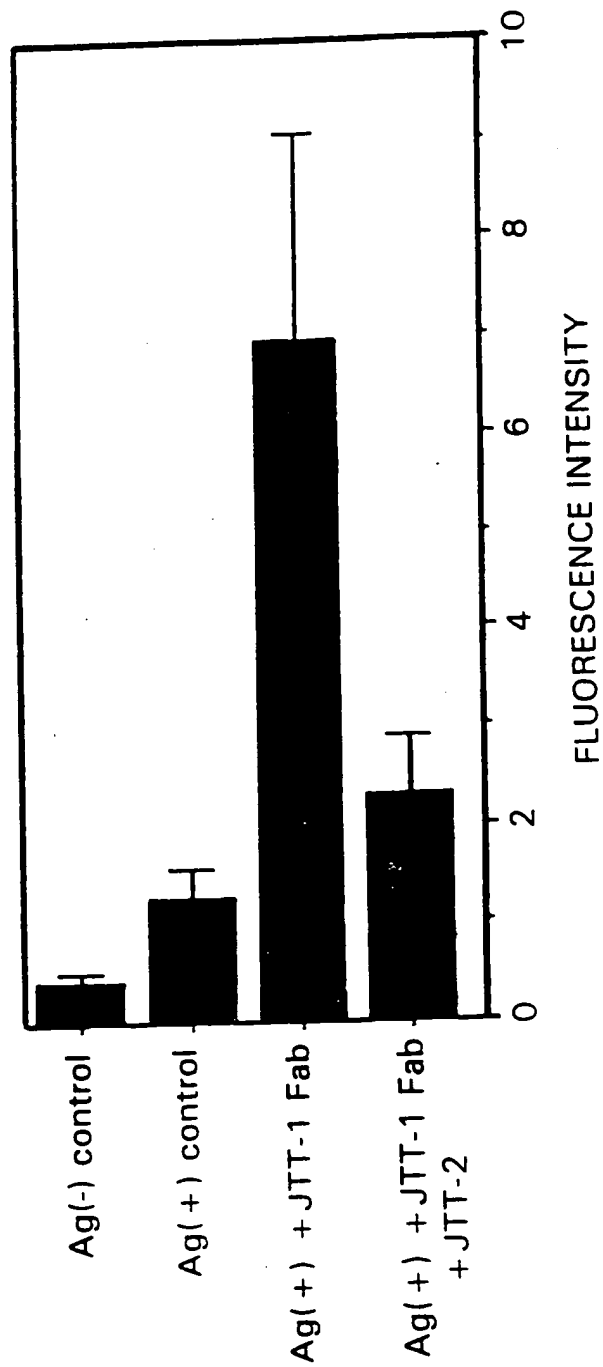


FIG. 7



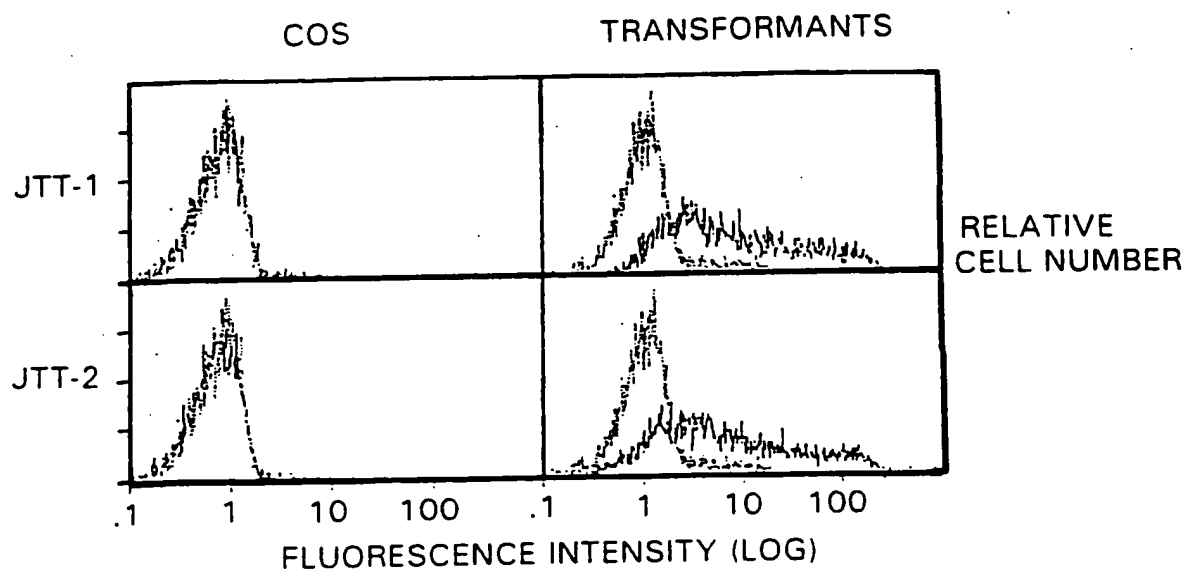


FIG. 8

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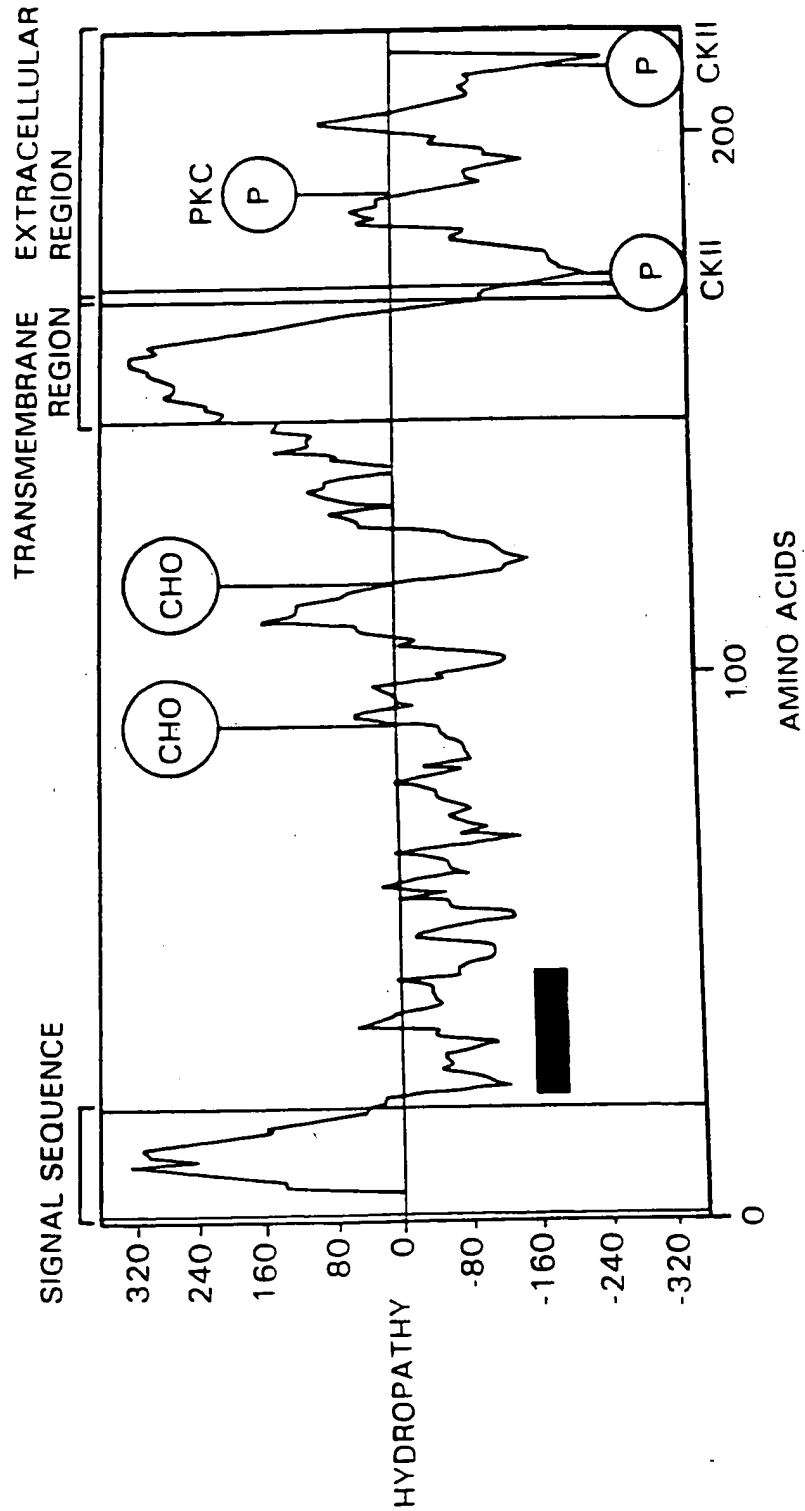
CELL SURFACE MOLECULE MEDIATING CELL ADHESION  
AND SIGNAL TRANSMISSION

FIG. 9

Applicant(s): Takuya Tamatani et al.

CELL SURFACE MOLECULE MEDIATING CELL ADHESION  
AND SIGNAL TRANSMISSION

human	M K S G L W Y F F L	F C L R I K V L T G E	I N G S A N Y E M F I F H N G G V Q I	L C K Y P D I V Q Q	50
rat	M K P Y F S C V F V	F C F L I K L L T G E	E L N D L A N H R M F S F H D G G V Q I	S C N Y P E T V Q Q	50
rat mutant	M K P Y F S C V F V	F C F L I K L L T G E	E L N D L A N H R M F S F H D G G V Q I	S C N Y P E T V Q Q	50
mouse	M K P Y F C H V F V	F C F L I R L L T G E	E I N G S A D H R M F S F H N G G V Q I	S C K Y P E T V Q Q	50
consensus	M K P Y F . . V F V	F C F L I K L L T G E	. . . A N H R M F S F H . G G V Q I	S C . Y P E T V Q Q	50
human	F K M Q L L K G G Q	I L C D L T K T K G S G N T	T V S I K S L K F C H S Q L S N N S V S F F L Y N L D	100	
rat	L K M Q L L F K D R E	V L C D L T K T K G S G N T	T V S I K N P M S C C P Y Q L S N N S V S F F L Y N L D	100	
rat mutant	L K M Q L L F K D R E	V L C D L T K T K G S G N T	T V S I K N P M S C C P Y Q L S N N S V S F F L Y N L D	100	
mouse	L K M R L L F R E R E	V L C E L T K T K G S G N A	V S I K N P M L L C L Y H L S N N S V S F F L Y N L D	100	
consensus	L K M Q L L F K . R E	V L C D L T K T K G S G N T	T V S I K N P M . C . Y Q L S N N S V S F F L Y N L D	100	
human	H S H A N Y Y F C N	L S I F D P P P P F Q	- V T L T G G Y L L H I Y E S Q L C C C Q L K F W L P I G C A A	149	
rat	S S Q G S Y F L C S	L S I F D P P P P F Q	E K N L S G G Y L L I Y E S Q L C C C Q L K F W L P V V G C A A	150	
rat mutant	S S Q G S Y F L C S	L S I F D P P P P F Q	E K N L S G G Y L L I Y E S Q L C C C Q L K F W L P V V G C A A	150	
mouse	S S Q G S Y Y F C S	L S I F D P P P P F Q	E R N L S G G Y L L I Y E S Q L C C C Q L K F W L P V V G C A A	150	
consensus	S S Q G S Y . . C S	L S I F D P P P P F Q	E . N L S G G Y L . I Y E S Q L C C C Q L K F W L P V V G C A A	150	
human	F V V V C I L G C I	L I C W L T K K K Y	S S S V H D P N S E Y M F M R A V N T A	199	
rat	F V A A L L F G C I	F I V W F A K K K Y	R S S S V H D P N S E Y M F M A A V N T A	200	
rat mutant	F V A A L L F G C I	F I V W F A K K K Y	R S S S V H D P N S E Y M F M A A V N T A	200	
mouse	F V V V L L F G C I	L I I W F S K K K Y	G S S S V H D P N S E Y M F M A A V N T A	200	
consensus	F V . . L L F G C I	. I . W F . K K K Y	. S S S V H D P N S E Y M F M A A V N T A	200	
human	- - - - -	- - - - -	- - - - -	199	
rat	- - - - -	- - - - -	- - - - -	200	
rat mutant	L R A L G R G E H S	S C Q D R N	- - - - -	216	
mouse	- - - - -	- - - - -	- - - - -	200	
consensus	- - - - -	- - - - -	- - - - -	216	

FIG. 10

## CELL SURFACE MOLECULE MEDIATING CELL ADHESION AND SIGNAL TRANSMISSION

JTT1	M	-	-	-	-	KSGL	-	-	-	W	-	YFFLL	FCLR	IKKVL	TGTEING	SANYEMFI	FH	34
CD28	M	-	L	-	-	RLLL	A-	-	-	-	-	LNLFL	-PS	IQVLT	GKNKILV	KQSPMLVAYD	33	
CTLA4	M	A	C	L	G	FQRHK	AOLN	LAAARTW	PCTL	LFLFLLF	IIPVFCKAMHV	AQPAPVVLAASS	50					
consensus	M	-	L	-	-	-	-	-	-	-	-	-	-	I.V	. . . . .	A.	50	
JTT1		N	G	G	V	Q I L C K Y	- -	P D I V Q Q F K	M Q L L K G G Q I L	- -	[C] D L T K T	K G S G N T V S I K	78					
CD28		N A V - N L S C C K Y	S Y N L F S R E F R	A S L H K G L D S A	V E V -	C V V Y G N	Y S Q Q L O V Y S K	81										
CTLA4		R G I A S F V C E Y	A S P G K A T E V R	V T V L R Q A D S Q	V T E V C A A -	- T	Y M T G N E L T F L	98										
consensus		N G . . . . .	. . P . . . .	E F R . . . .	L L K G . D S .	V . - [C]	. . . . .	100										
JTT1		S L K F C H S Q L S	N N S V S F F L Y N	L D H S H A N Y Y F	C N L S I F D P P P	F - -	K V T L T G G	126										
CD28		T G F N C D G K L G	N E S V T F Y L Q N	L L Y V N Q T D I Y F F	C K I E V M Y P P P	Y L D N E K S N G T	131											
CTLA4		D D S I C T G T S S	G N Q V N L T I Q G	L R A M D T G L Y I	C K V E L M Y P P P	Y Y -	L G I G N G T	147										
consensus		. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	150										
JTT1		Y L H I Y E S Q L C	C Q L K F	- - - - -	- - - - -	L P I G C A	A F V V V V C I L G C	- I L I C W L T K K	167									
CD28		I I H V K G K H L C	P S P L F F G P S K	- - - - -	- - - - -	W V L V V V G G	V L A C Y S L L V T	V A F I I F W V R S	181									
CTLA4		Q I Y V I D P E P C	P D S D F	- - - - -	- - - - -	L L W I L L A A V S S	G L F F Y S F L L T	- A V S L S K M L K	191									
consensus		. I H V . . . . .	. P . . . . .	. F - - - -	. - - - -	. . . . .	. L . . . . .	. . . . .	200									
JTT1		K Y S S S V H D P N	G E Y M F M R A V N	T A K K S R	- - - -	L T D V T L	- - - -	- - - -	199									
CD28		K R S S - - - R L L H	S D Y M N M T P R R	P G P T R K H Y Q P	- - - -	Y A P P R D F A A Y	R S	- - - -	220									
CTLA4		K R S S - - - P L T T	G V Y V K M P P T E	P E - C E K Q F Q P	- - - -	- - - -	- F I - P I	- - - -	223									
consensus		K R S S - - - . L . .	. G . Y M . M .	. P . . . . .	. K . . . .	. Q P Y - - - .	D F . . . .	- - - -	242									

FIG. 11

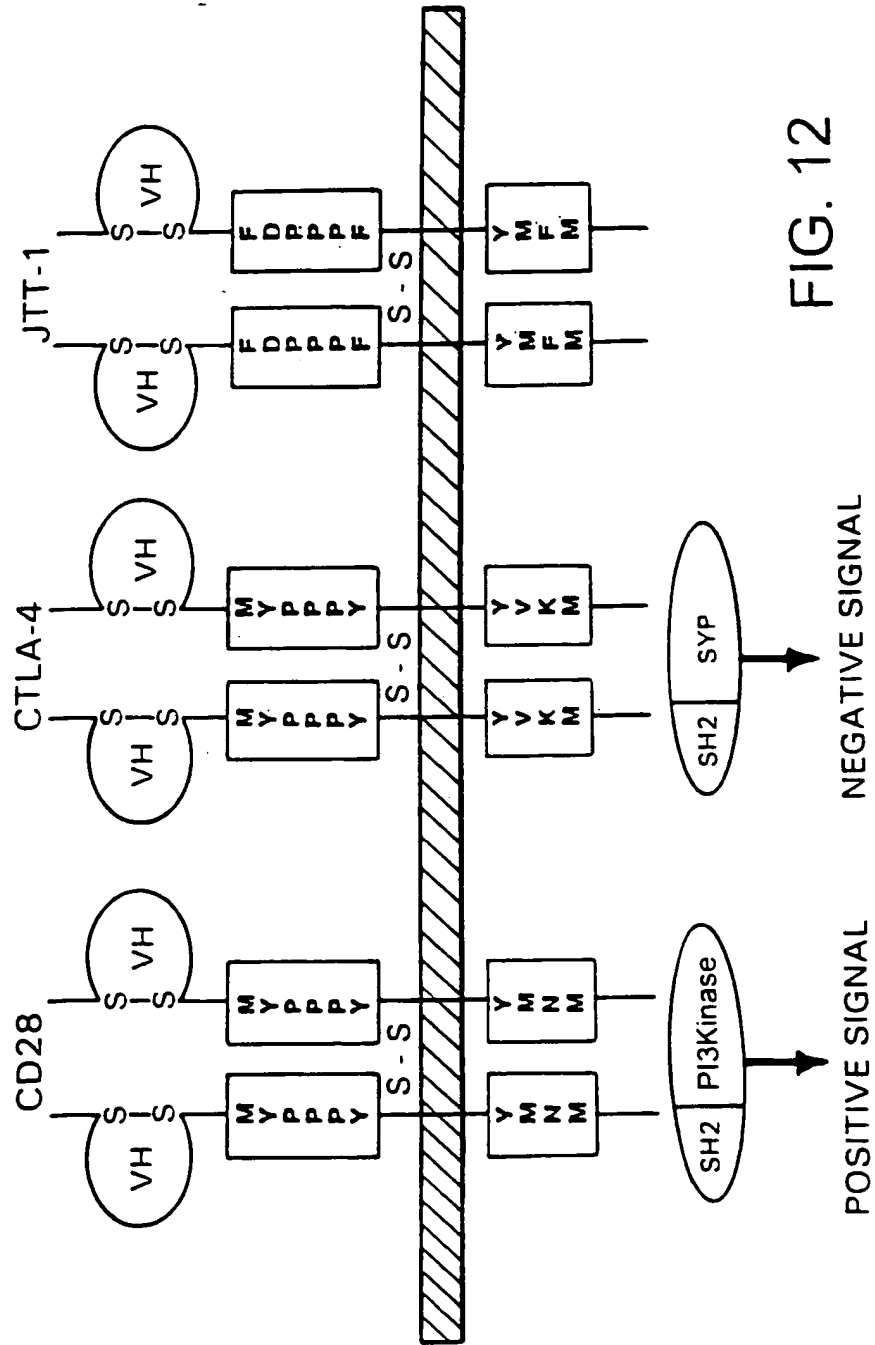


FIG. 12

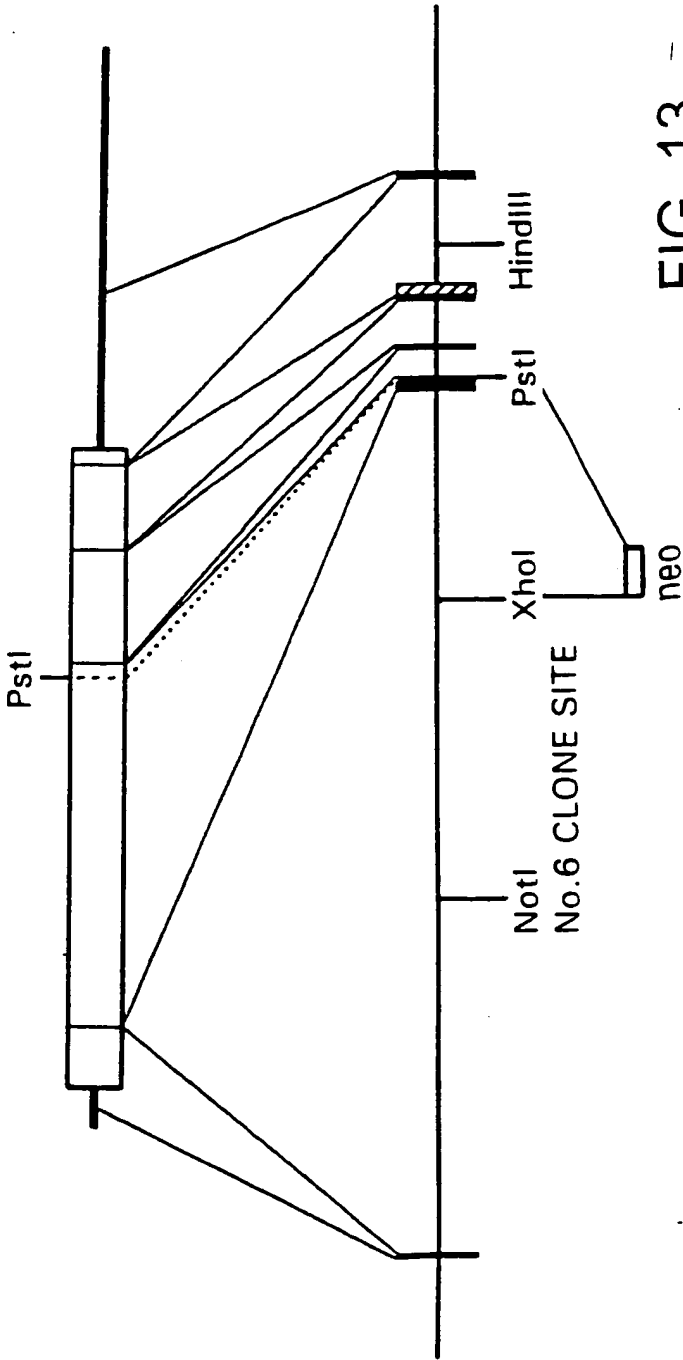


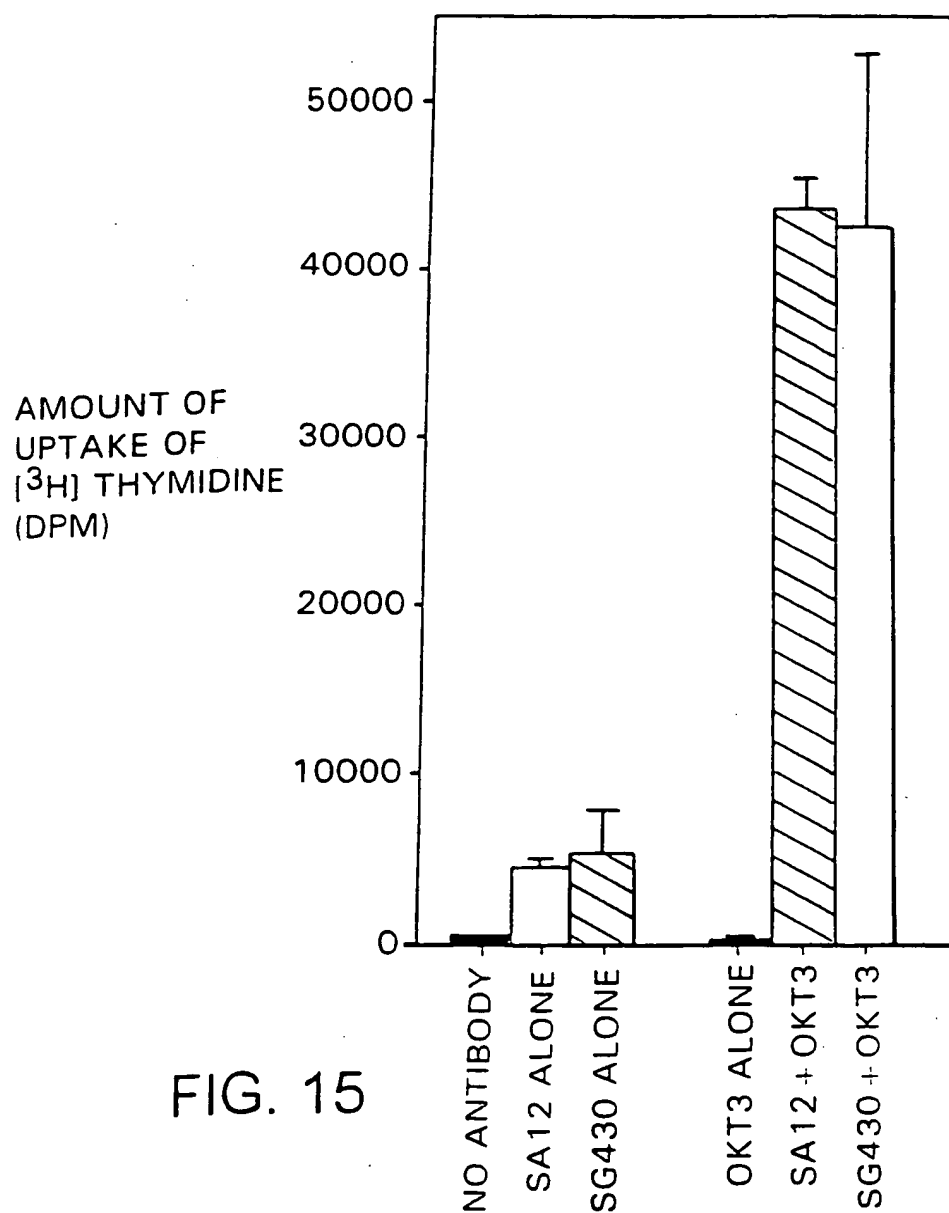
FIG. 13

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CELL SURFACE MOLECULE MEDIATING CELL ADHESION  
AND SIGNAL TRANSMISSION

rat	50	
rat mutant	50	
consensus	50	
		<div> <div> MKPYFSCVFV FCFLIKLLTG ELNDLANHRM FSFHDGGVQI SCNYPETVQQ</div> <div> MKPYFSCVFV FCFLIKLLTG ELNDLANHRM FSFHDGGVQI SCNYPETVQQ</div> <div> MKPYFSCVFV FCFLIKLLTG ELNDLANHRM FSFHDGGVQI SCNYPETVQQ</div> </div>
rat	100	
rat mutant	100	
consensus	100	
		<div> <div>LKMQLFKDRE VLCDLTKTKG SGNIVSIKNP MSCPYQLSNN SVSFFLDNAD</div> <div> LKMQLFKDRE VLCDLTKTKG SGNIVSIKNP MSCPYQLSNN SVSFFLDNAD</div> <div> LKMQLFKDRE VLCDLTKTKG SGNIVSIKNP MSCPYQLSNN SVSFFLDNAD</div> </div>
rat	150	
rat mutant	150	
consensus	150	
		<div> <div>SSQGSYFLCS LSIFDPPPFQ EKNLSGGYLL IYESQLCCQL KLWLPVGCAA</div> <div> SSQGSYFLCS LSIFDPPPFQ EKNLSGGYLL IYESQLCCQL KLWLPVGCAA</div> <div> SSQGSYFLCS LSIFDPPPFQ EKNLSGGYLL IYESQLCCQL KLWLPVGCAA</div> </div>
rat	200	
rat mutant	200	
consensus	200	
		<div> <div>FVAALLFGCI FIVWFAKKKY RSSVHDPNSE YMFMAAVNTN KKSRLAG MTS</div> <div> FVAALLFGCI FIVWFAKKKY RSSVHDPNSE YMFMAAVNTN KKSRLAG TAP</div> <div> FVAALLFGCI FIVWFAKKKY RSSVHDPNSE YMFMAAVNTN KKSRLAG ...</div> </div>
rat	200	
rat mutant	216	
consensus	216	
		<div> <div>-----</div> <div> LRALGRGEHS SCQDRN</div> <div> .....</div> </div>

FIG. 14





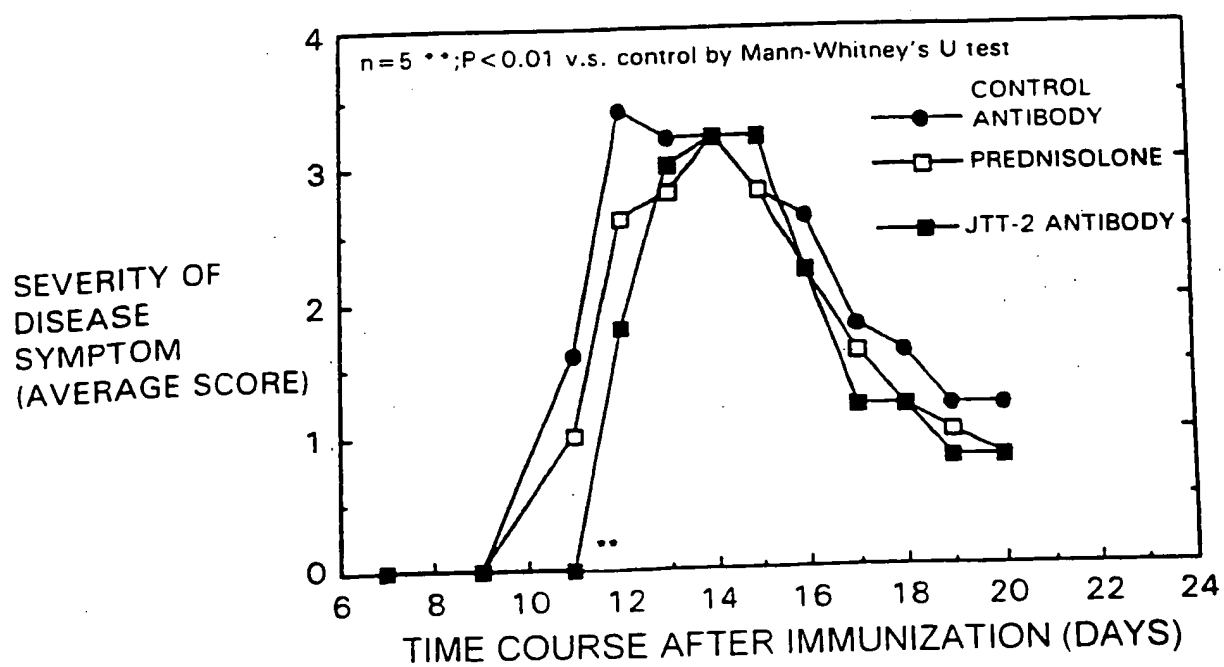


FIG. 16

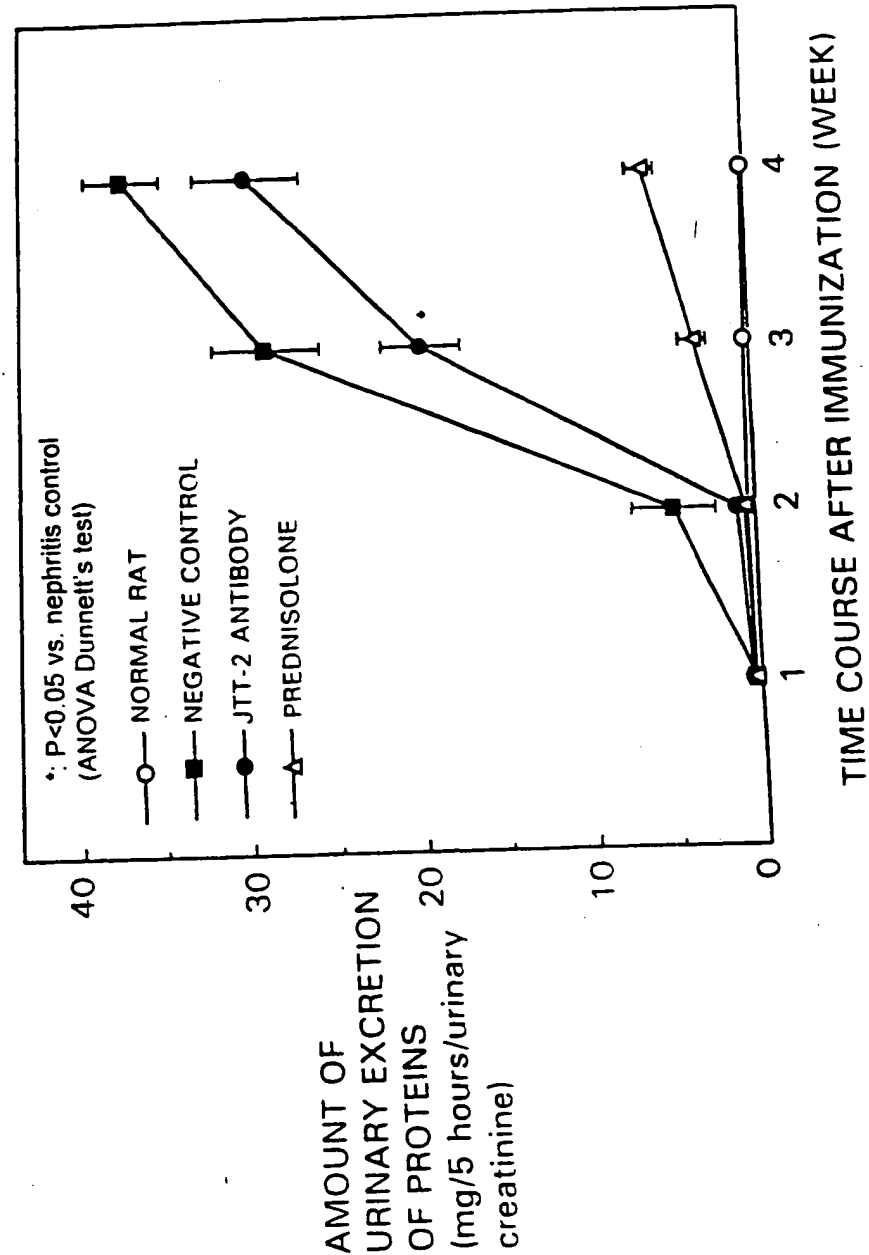


FIG. 17

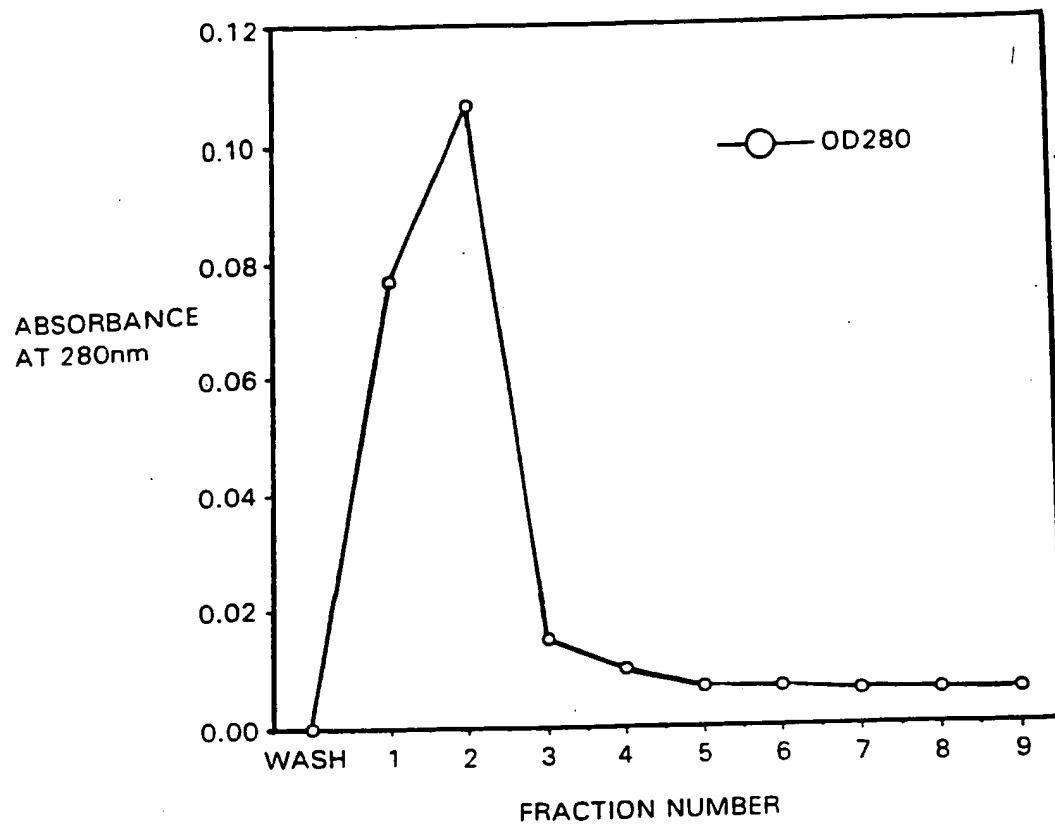


FIG. 18

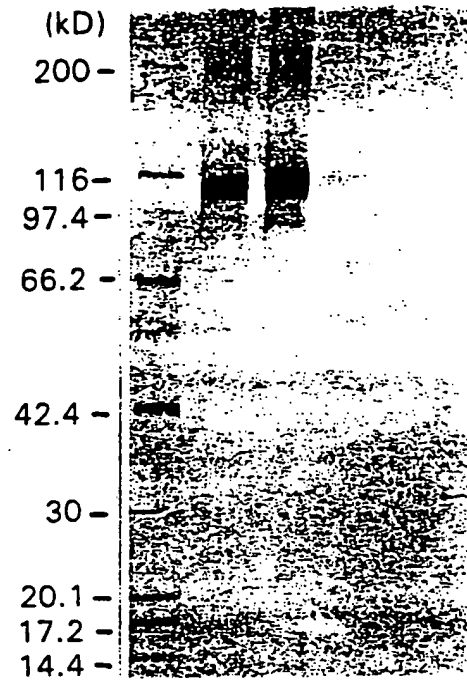


FIG. 19

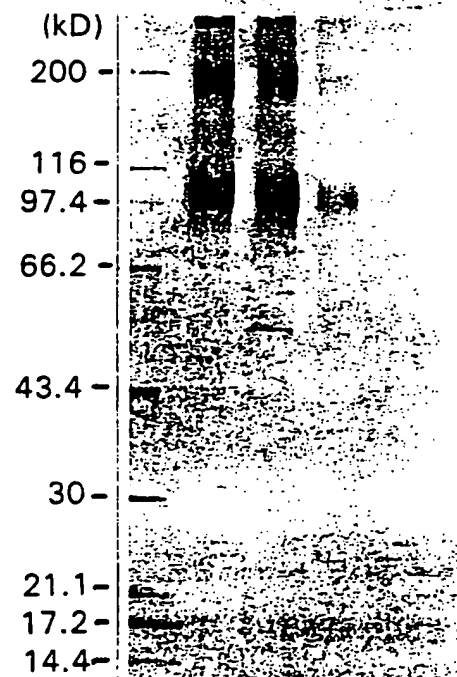


FIG. 21

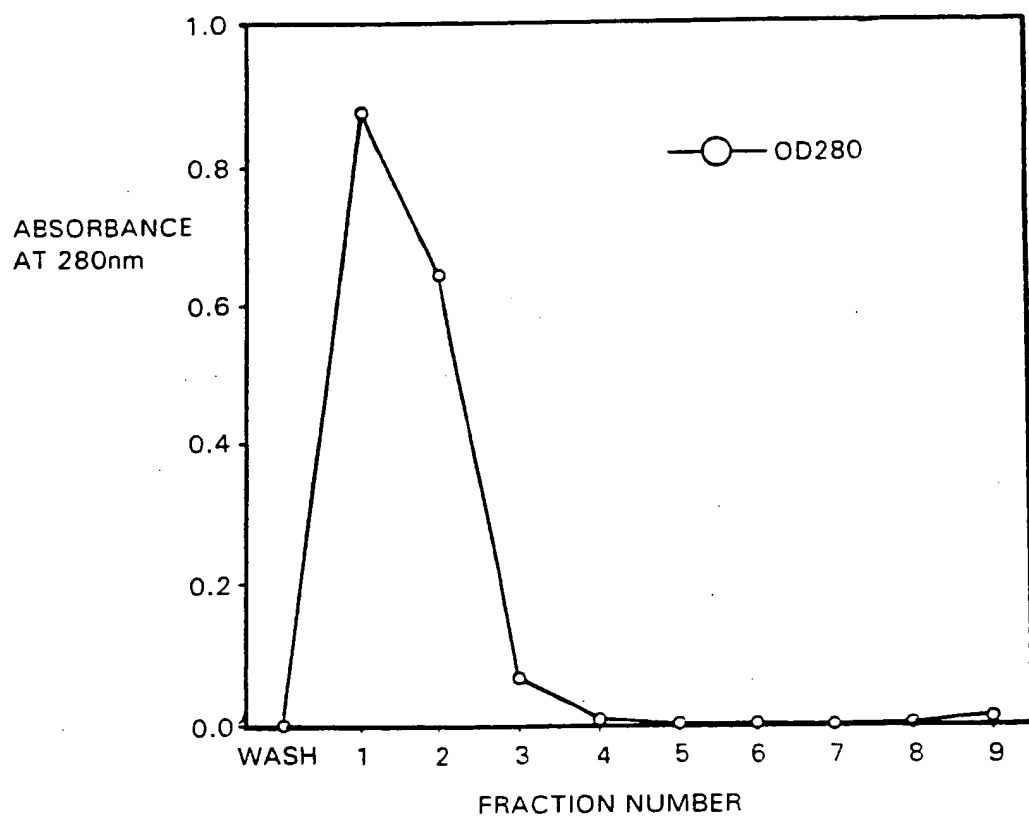


FIG. 20

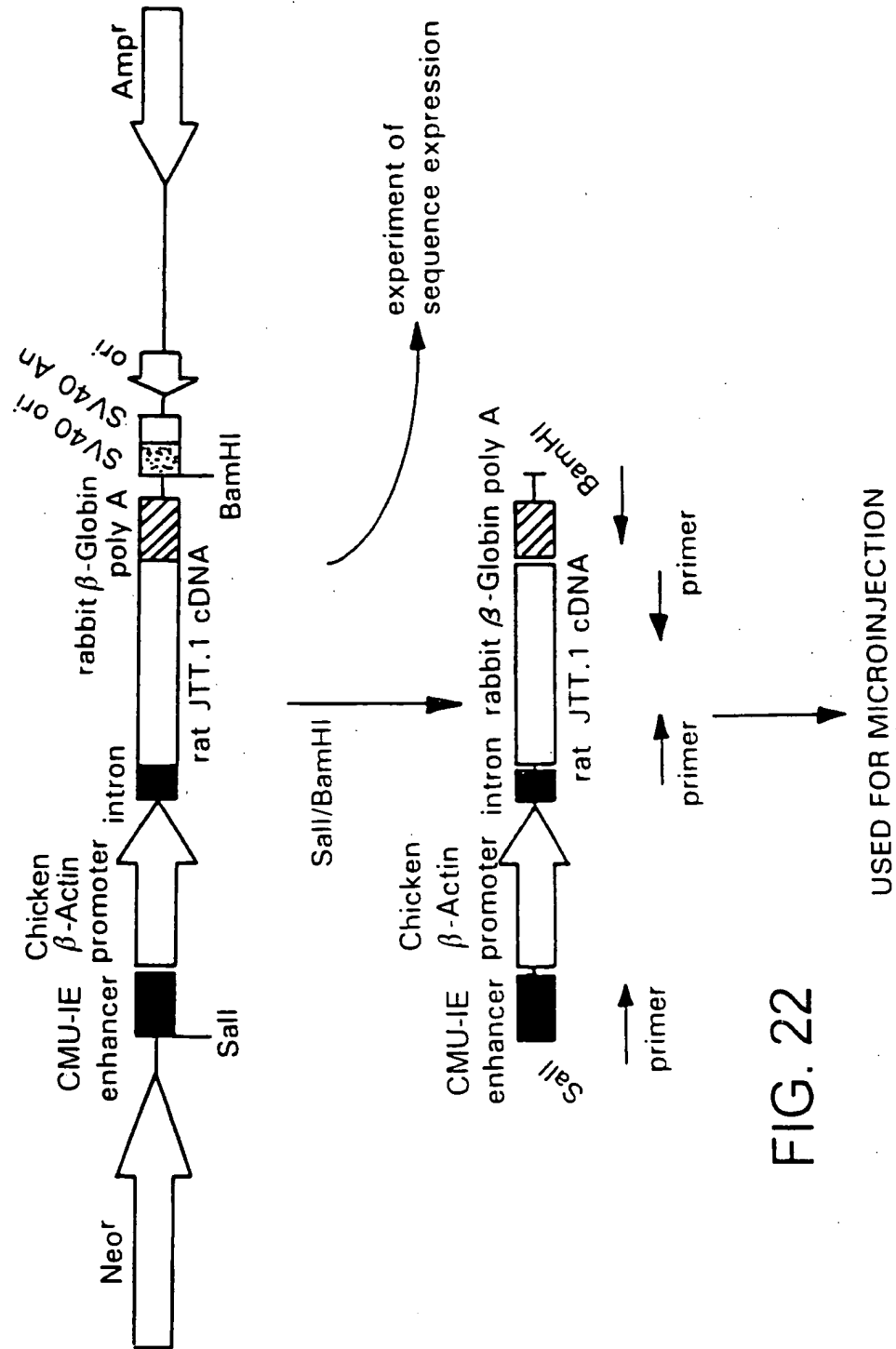


FIG. 22